



▼ ◆
MPRIMIKGGVWRNTEDEILKAAVMKYGKNQWSRIASLLHRKSAKQCKARW 50
◆ ▼
YEWLDPSIKKTEWSREEEEEKLLHLAKLMPTQWRTIAPIIGRTAAQCLEHY 100
▼
EFLLDKAAQRDNEEETTDDPRKLKPGEIDPNPETKPARPDPIDMDEDELE 150
MLSEARARLANTQGKKAKRKAREKQLEEARRLAALQKRRELRAAGIEIQK 200
▼
KRKRKRGV DYN AEI PF EK K PAL GF YDT SE EN Y QAL DAD FR KL R Q QD LD GE 250
▼ ◆ ■ ◆ ■
LRSEKEGRDR KKKDKQHLKRKKESDLPSAILQTSGVSEFTKKRSKLVLPAP 300
▼ ▼
QISDAELQEVVKVGQASEIARQTAEESGITNSASSTLLSEYNVTNNSVAL 350
◆ ● ▼
RTPRTPASQDRILQEAQNLMA L TNVD T PL K GGL NT PL HESDFSGVTPQRO 400
● ▼ ▼ ●
VVQTPNTVLSTPFRTPSNGAEGLTPRSGTTPKPVINSTPGRTPLRDKLNI 450
NPEDGMADYSDPSYVKOMERESREHLRLGLLGLPAPKNDFEIVLPENAEK 500
▼
ELEEREIDDTYIEDAADVDARKQAIRDAERVKEMKRMHKAVQKDLPRPSE 550
VNETILRPLNVEPPLTDLQKSEELIKKEMITMLHYDLLHHPYEPSGNKKG 600
▼ ▼ ▼
KTVGFGTNNSEHITYLEHNPYEKFSKEELKKAQDVLVQEMEVVKQGM SHG 650
▼ ◆
ELSSEAYNQWEECYSQVLYLPGQSRYTRANLASKKDRIESLEKRLEINR 700
GHMTTEAKRAAKMEKKMKILLGGYQSRAMGLMKQLNDLWDQIEQAHLELR 750
▼ ◆
TFEELKKHEDSAIPRRLECLKEDVQRQQEREKELQHRYADLLLEKETLKS 800

KF*

Fig. 1A

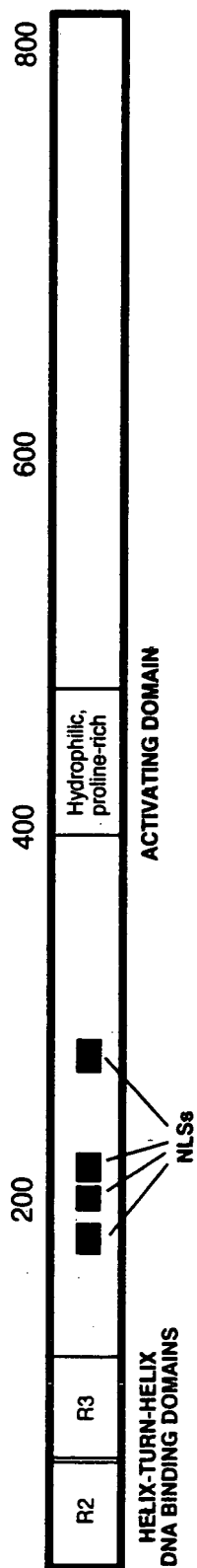


Fig. 1B

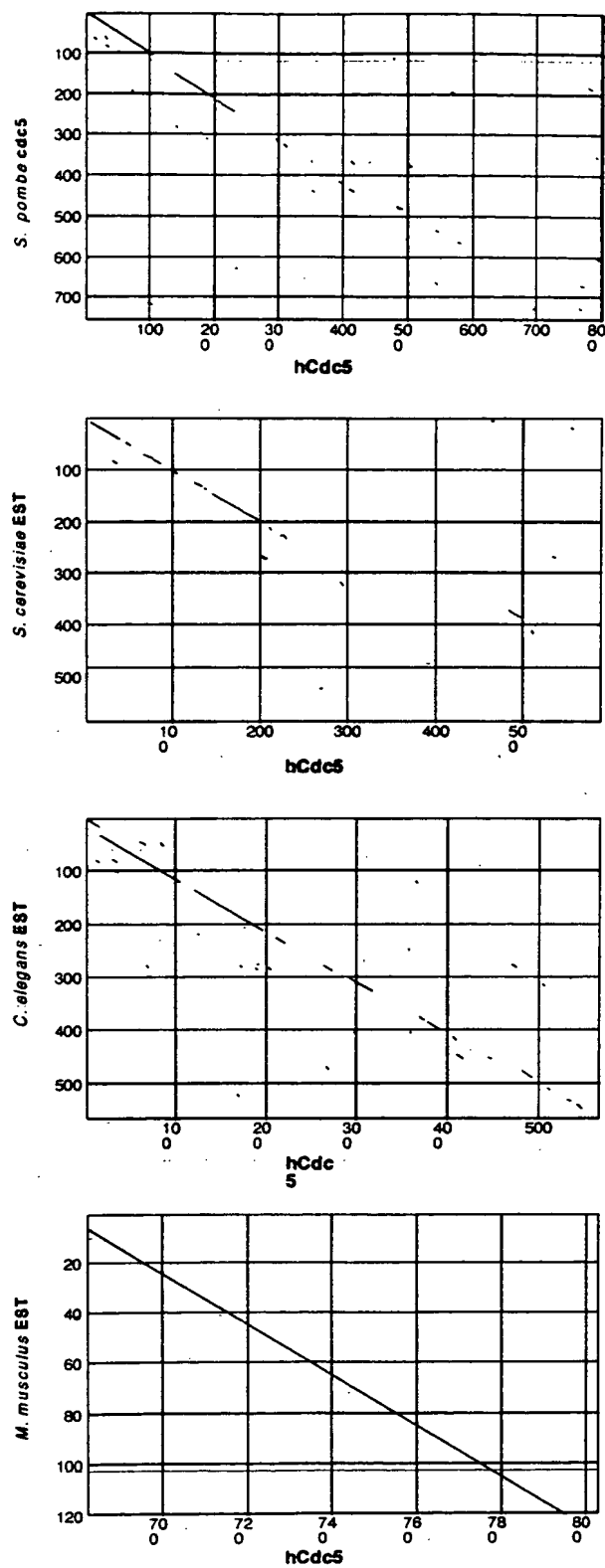


Fig. 2A



hCdc5	IKGGVWRNTEDEILKAAVMKYGKNQWSRIASLLHRKSAKQCKARWYEWLDP	(6-56)
SpombeCdc5	LKGGAWKNTEDEILKAAVSKYGKNQWARISSLLVRKTPKQCKARWYEWIDP	(5-55)
b-Myb	VK-GPWTKEEDQKVIELVKKYGTQWTLIAKHLKGRGKQCRERWHNHLNP	(88-137)
a-Myb	IK-GPWTKEEDQKVIELVQKYGPKRWSLIAKHLKGRIGKQCRERWHNHLNP	(87-136)
c-Myb	IK-GPWTKEEDQKVIELVQKYGPKRWSVIAKHLKGRIGKQCRERWHNHLNP	(92-141)

Fig. 2B



hCdc5
S. pombe cdc5
 b-Myb
 a-Myb

PLKGGGLNPLHESDFSGVTPQRQVVQTPNTVLSTPFRTPSNGAEGLTSPRGTTPKPVINSTP (378-439)
 SVTIEVRNQLMNRQSSLLGQESIPLQPGGTGYTGVT-PSHAANGS---ALAAP--Q--ATP (380-434)
 PVK-TL--PFSPSQFLNFWNKQDTLEESPSLTSTPVCQKVVVTTPLHRDKTPLHQKHAAF (445-503)
 ILRKKRKMVRVGHSPGSEL-RDGSUNDGGNMAKTPKTPFSPSQFFNTCPGNEQLNIENPSF (446-508)

hCdc5
S. pombe cdc5
 b-Myb
 a-Myb

GRTPLRDKLINREDGMADYSDPSYVKQMERESREHLRLGLLPAPKNDFEIVLPENAEK (440-500)
 FRTPR-DTFSINAAERAGR-LASE-REN-KIRLKALRELLAKLPKPKNDYEL-ME-P-R- (435-487)
 VTPDQKYSMDNTRHTP-TPFKNAKYGPKLPQTPHLEEDLKEVLRSEAGIELIIEDDIRP (504-565)
 TSTPICGQKAL-ITTPLHKETTPKDQKENVGFRTPTIRRSILGTPRTPTPFKNALAAQEKK (509-569)

Fig. 2C



5' untranslated region:

GGCAGGAGAGGAAGTGGCGGCTTTGAGTCCGGTGGCCCAATCGCTGTACTACTTCTCTGAAGCTCCTCTCGGCTGCTTGC
CGAGACACCTTGGCCCAAG

Coding region:

1 DNA BINDING DOMAIN (___)

1 atgcccctcgaa ttatgatcaa gggggggccta tggaggaata ccgaggatga aattctgaaa
61 gcagcggtaa tgaatatatg gaaaaatcag tggcttagga ttccctcatt gctgcataga
121 aaatcagcaa agcagtgcga agccagatgg tatgaatggc tggatccaaq cattaagaaq
181 acagaatggc ccagagaaqa agaggaaaaa ctcttgcaat tggccaagtt gatcccaact
241 caatggagga ccattgctcc aatcattgga agaacagcgg cccagtgctt agaacactat
301 gaattttctt tggataaaac tgcccaaaga gacaatgaag aggaacaac agatgatcca
361 cgaaaactta aacctggaga aatagatcca aatccagaaa caaaaccagc gcggcctgat
421 ccaattgata tggatgagga tgaacttgag atgctttctg aagccagagc ccgcttggtc

2 NUCLEAR LOCALIZATION DOMAIN (....)

481 aatactcagg gaaagaaggc caagaggaaa gcaagagaga aacaattgga agaagcaaga
541 cgtcttgctg ccctccaaaa aagaagagaa ctctgagcag ctggcataga aattcagaag
601 aaaagaaaaa ggaagagagg agttgattat aatgccgaaa tcccatttga aaaaaagcct
661 gcccttggtt ttatgatcac ttctgaggaa aactaccaag ctcttgacgc agatttcagg
721 aaattaagac aacaggatct tgatggggag cttaagatctg aaaaaagagg aagagataga
781 aaaaagaca aacagcattt gaaaaggaaa aaagaatctg atttaccatc agctattctt
841 caaactagtg gtgtttctga atttactaaa aagagaagca aactagtact tctgcccct
901 cagatttcag atgcagaact ccaggaggtt gtaaaagtag gccaagcag tgaatttga
961 cgtcaaactg ccgaggaatc tggcataaca aattctgctt ccagtacact ttgtctgag
1021 tacaatgtca ccaacaacag cgttgctctt agaacaccac gaacaccagc ttcccaggac
1081 agaattctgc aggaagccca gaacctcatg gccctcacca atgtggacac cccattgaaa

3 ACTIVATING DOMAIN (___)

1141 ggtggactta ataccccatt gcctgagagt gacttctcag gtgtaactcc acagccgaca
1201 gttgtagaga ctccaaacac agttctctct actccattca ggaactcctc taatggagct
1261 gaagggctga ctccccggag tggaaacaact cccaaaccag ttattaactc tactccgggt
1321 agaactcctc ttctgagacaa gttaaacatt aatccccgag atggaatggc agactatagt
1381 gatccctctt acgtgaagca gatggaaaqa gaatccccgag aacatctccg tttaggggtg
1441 ttgggccttc ctgcccttaa gaatgatttt gaaattgttc taccagaaaa tgccgagaag
1501 gagctggaag aacgtgaaat agatgatact tacattgaag atgctgctga tgtggatgct
1561 cgaaagcagg ccatacgaga tgcagagcgt gtaaaggaaa tgaaacgaat gcataaagct
1621 gtccagaaag atctgccaag accatcagaa gtaaatgaaa ctatttctaag acccttaaat
1681 gtagaaccgc ctttaacaga ttacagaaa agtgaagaac taatcaaaaa agaaatgatc
1741 acaatgcttc attatgacct tctacatcac ccttatgaac catctggaaa taaaaaggc
1801 aaaactgtag ggtttggtac caataattca gagcacatta cctatctgga acataatcct
1861 tatgaaaagt tctccaaaga agagctgaaa aaggcccagg atgttttggg gcaggagatg
1921 gaagtgggta aacaaggaat gagccatgga gagctctcaa gtgaagctta taaccaggtg
1981 tgggaagaat gctacagtca agttttatat ctctctgggc agagccgcta cacacgggct
2041 aatctggcta gtaaaaagga cagaattgaa tcacttgaaa agaggctcga gataaacagg
2101 ggtcacatga cgacagaagc caagagggtc gcaaagatgg aaaagaagat gaaaattttg
2161 cttgggggtt accagtctcg tgctatgggg ctcatgaaac agttgaatga cttatgggac
2221 caaattgaac aggtcactt ggagttacgc acttttgaag aactcaagaa acatgaagat
2281 tctgtattc cccggaggct agagtgtcta aaagaagacg ttcagcgaca acaagaaaga
2341 gaaaaggaac ttcaacatag atatgctgat ttgctgctgg agaaagagac tttaaagtca
2401 aaattctga

untranslated region:

AGTACAGTTTATATCTGTGCACAGGATTAATTAATTGCCGGTTTTCATACTCTAGAAGGCTGAAACTG ATGTTTATCTTCATTGACA
AATTTACCCACCATCTGTGGTTTTCAGTTGTTTATTTTAAATGATATCGATCTTACACATCTGTGTATAAAGACCTTAACCTCCACA
GGACCGACATTTTAGAGTTTAAATTATTA AGGCTATCATCTTTTAGTAATGTCATATTTGCAAACTTTTTAGTTTGGCCTTTAA
TTTAAAGCCTAATTTTAAAGTGCTGCTGTGAGTAACCTTTGAATAAAAAACAAATATAAAAA

Fig. 2D

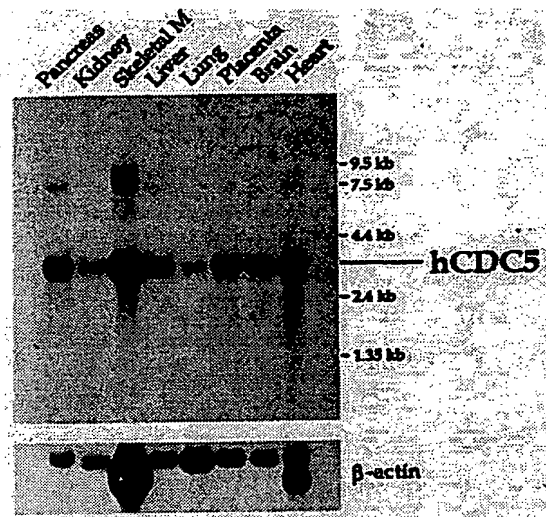


FIG. 3

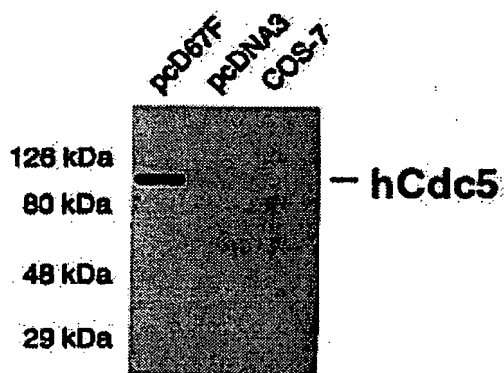


FIG. 4A

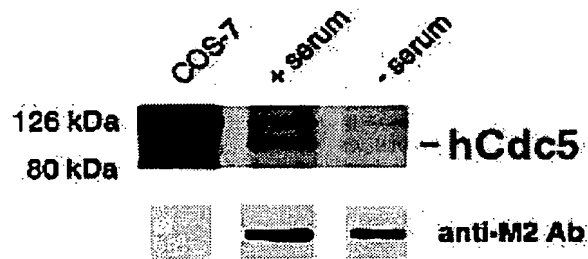


FIG. 4B



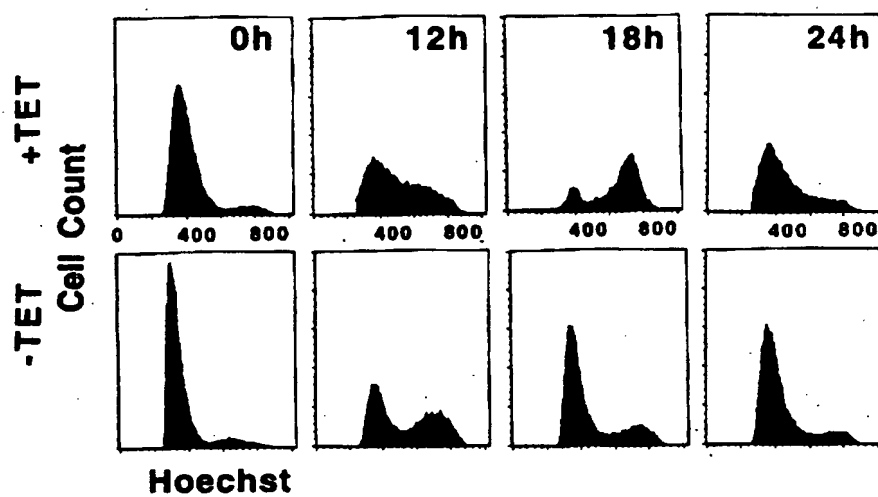


Fig. 6

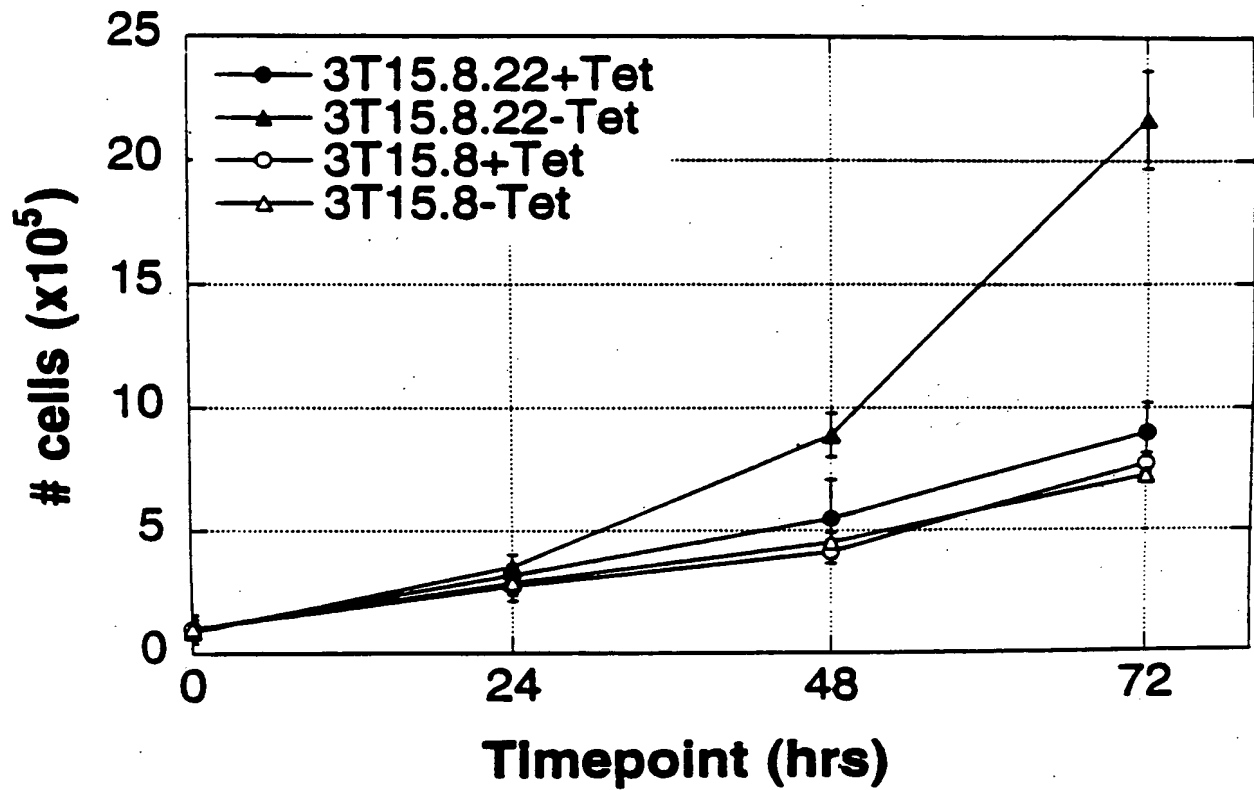


Fig. 7

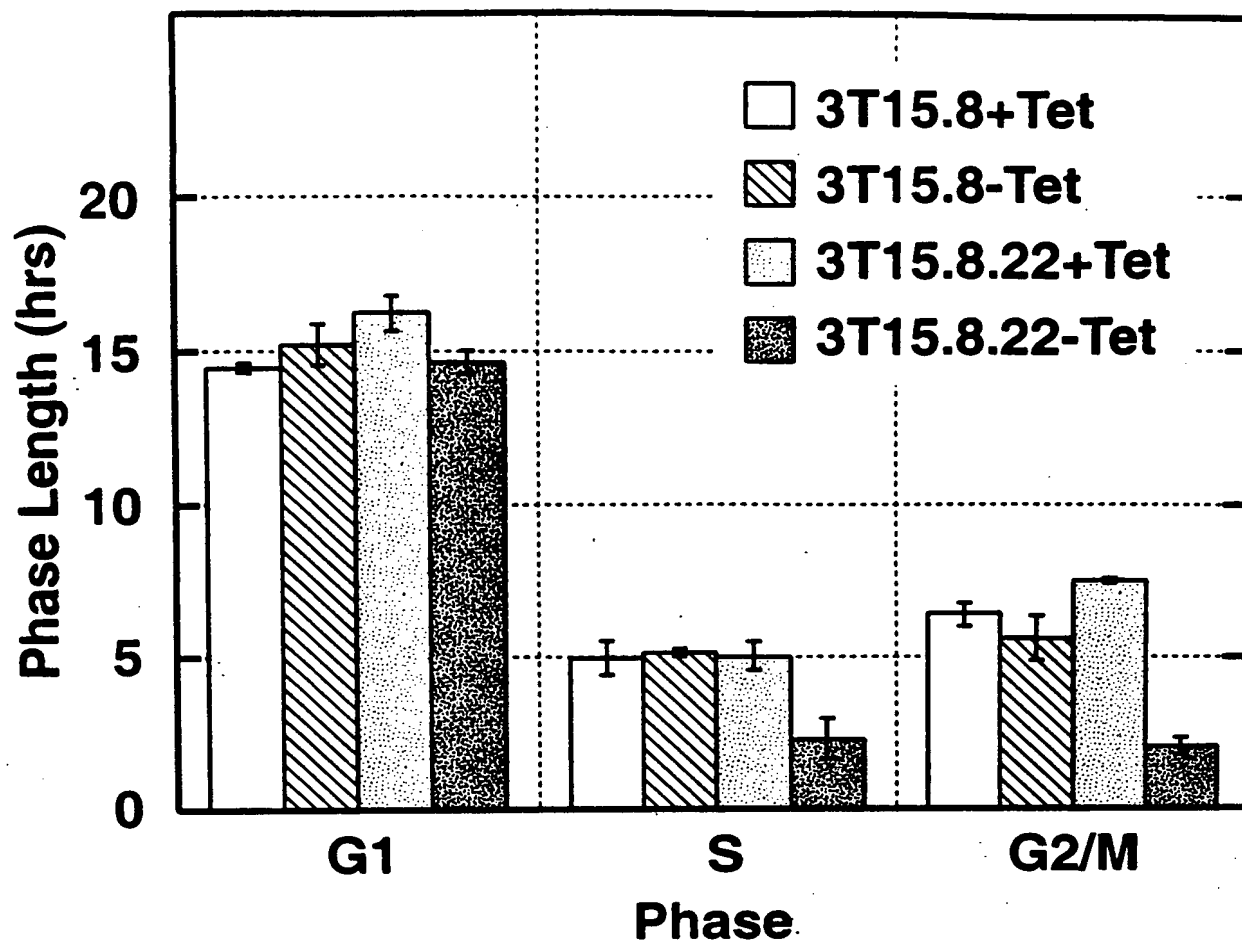


FIG. 8

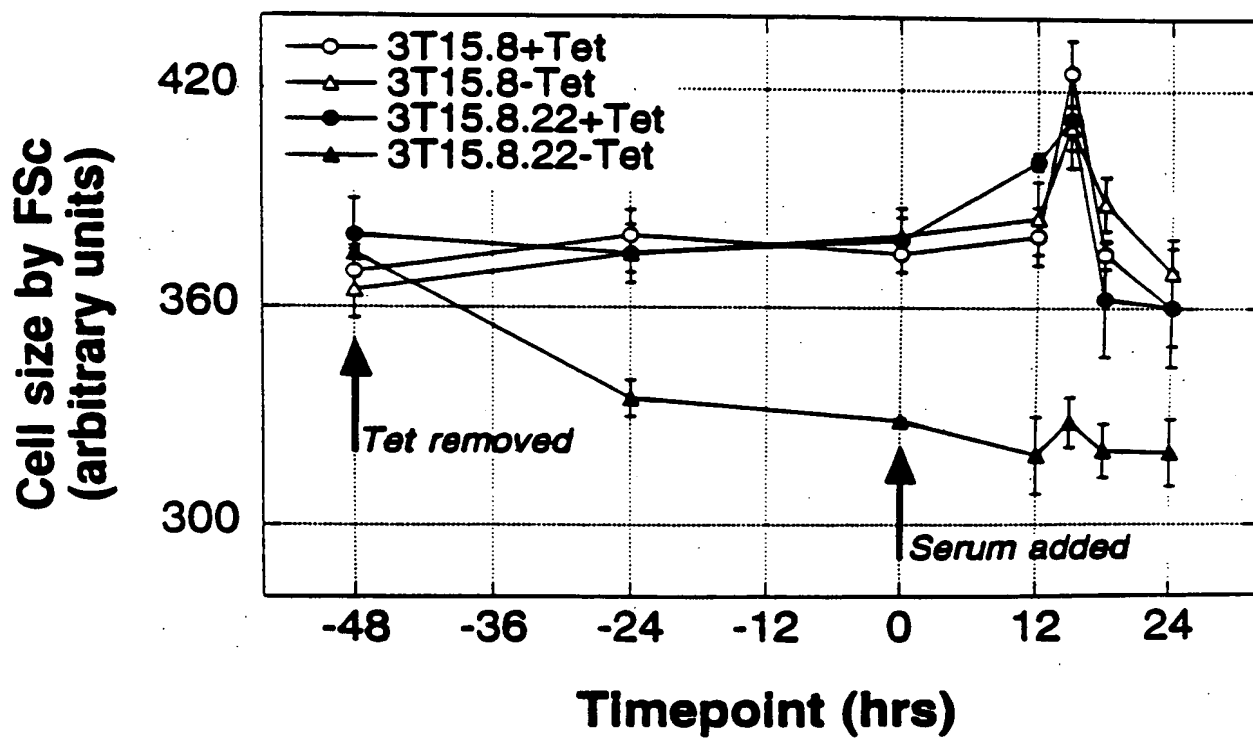
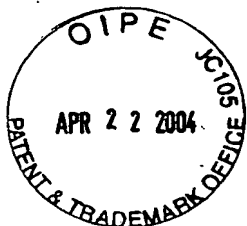


Fig. 9

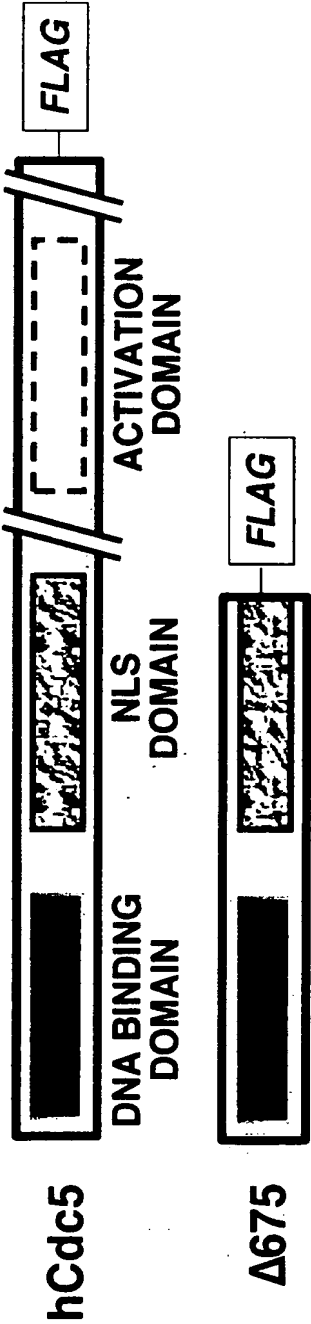


Fig. 10

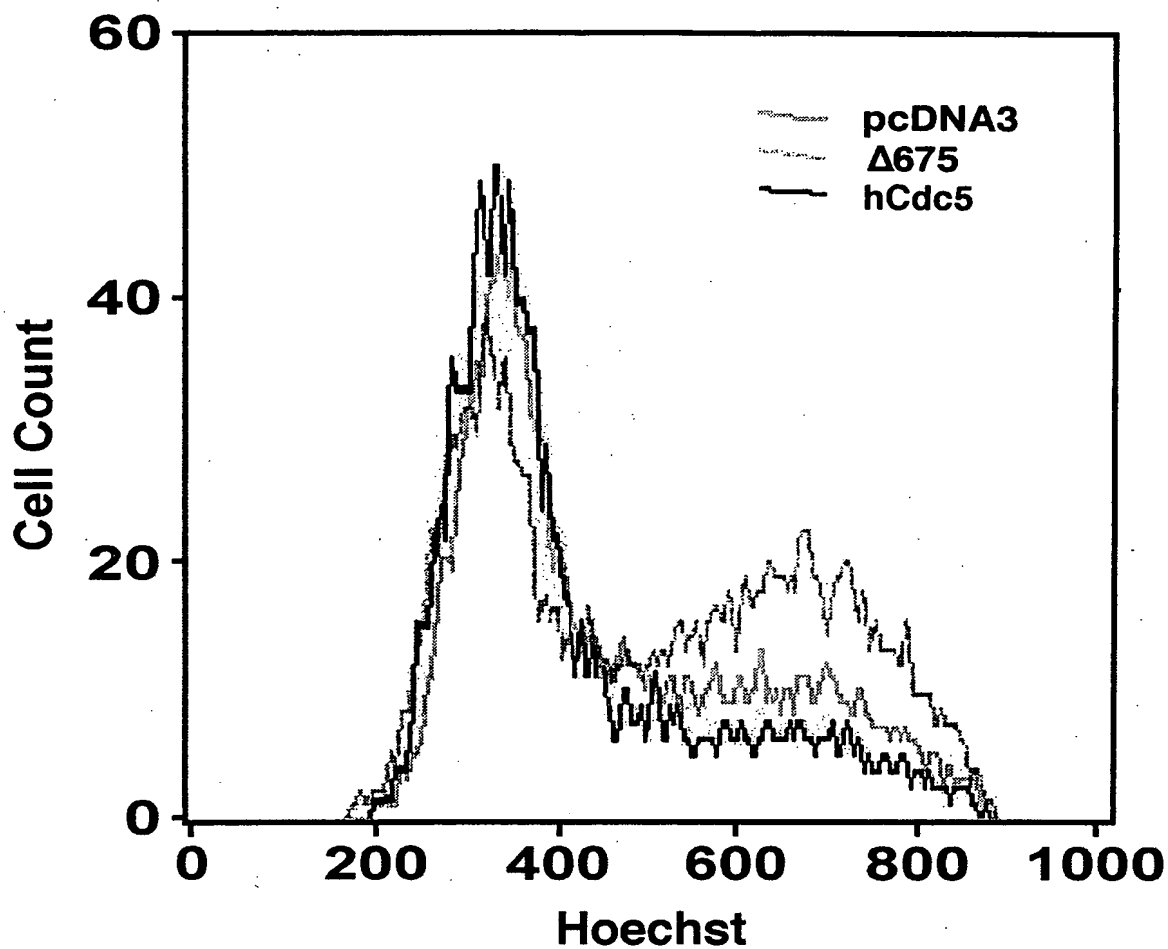


FIG. 11

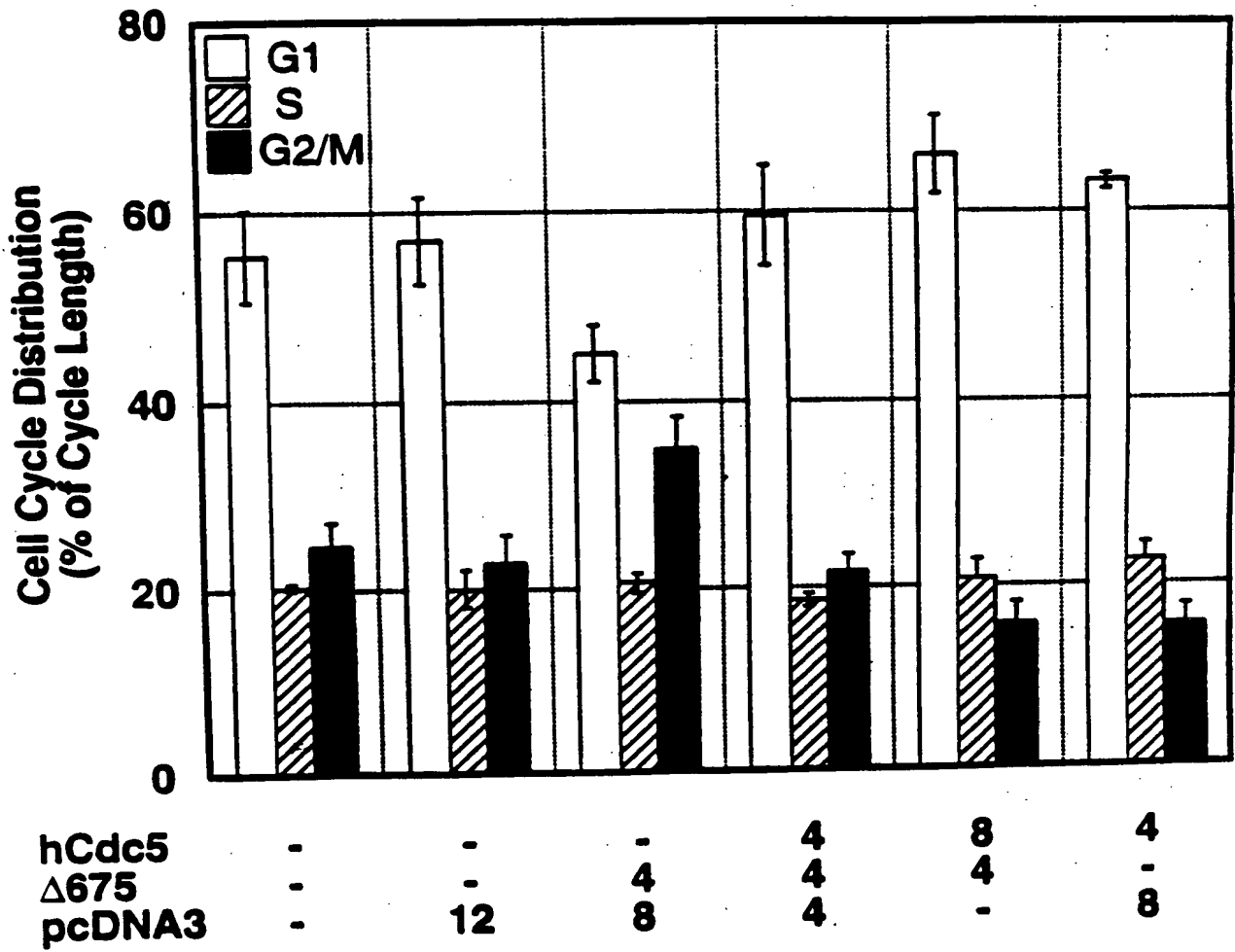


Fig. 12

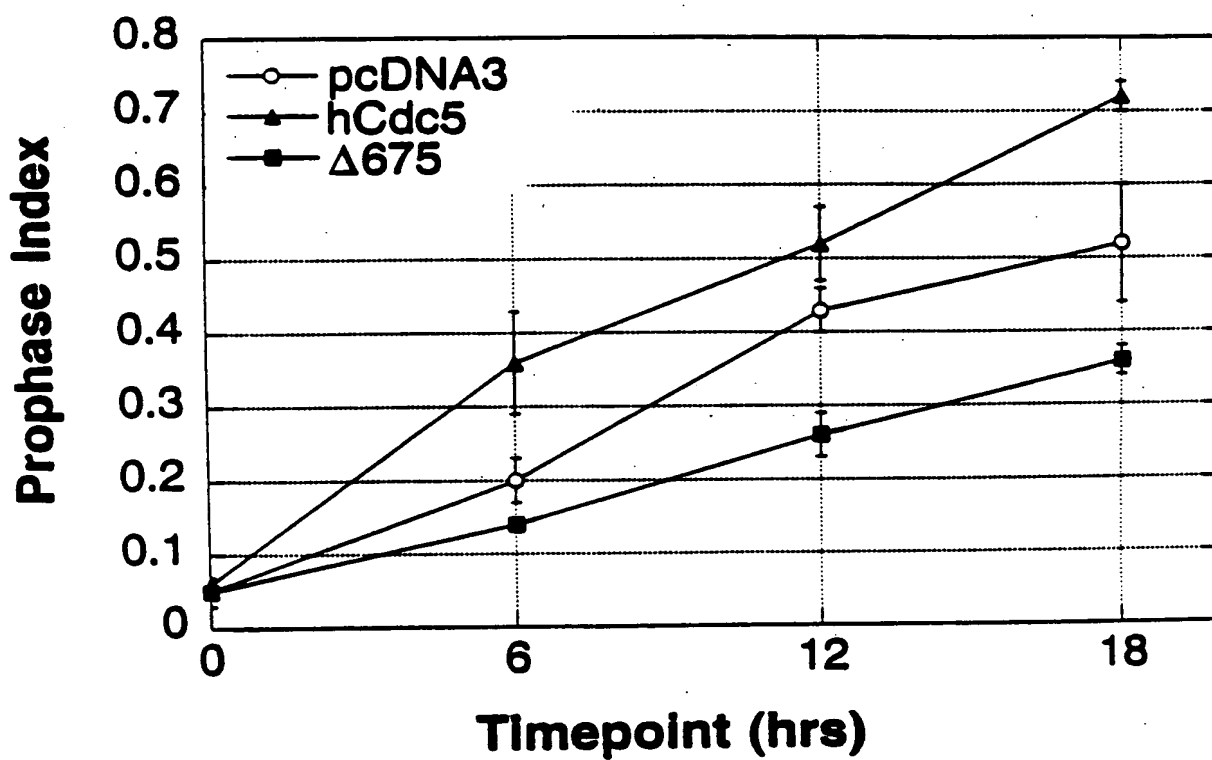


Fig. 13

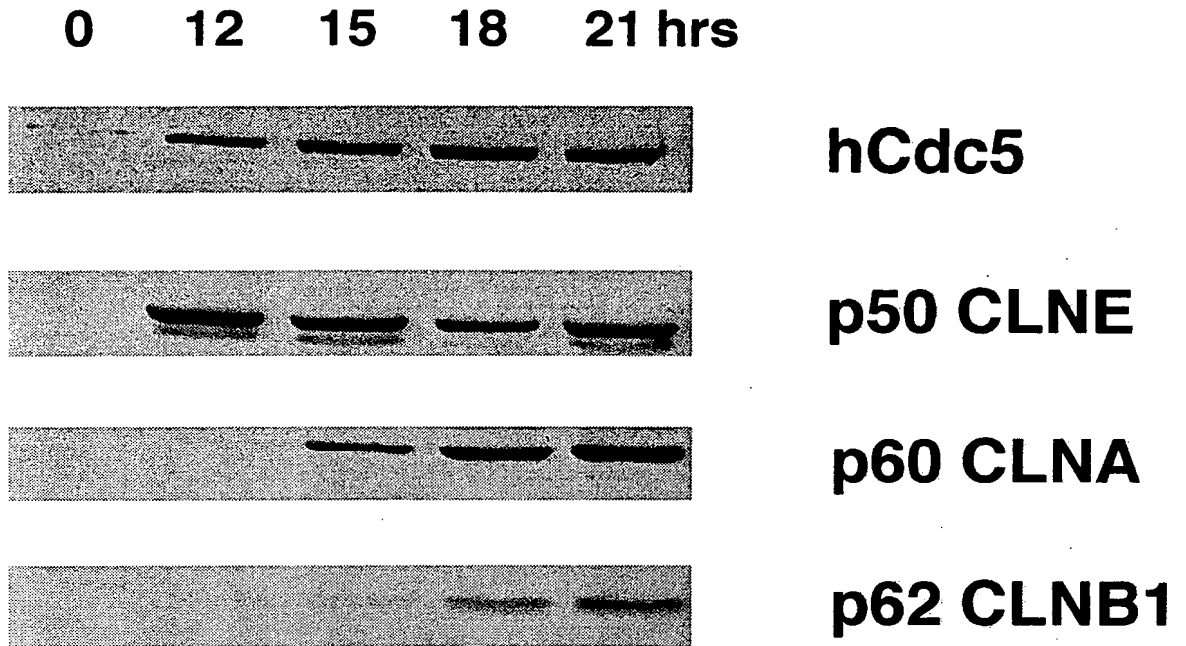
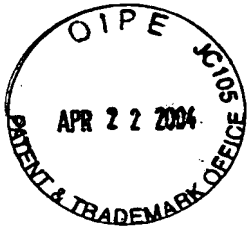


FIG. 14A

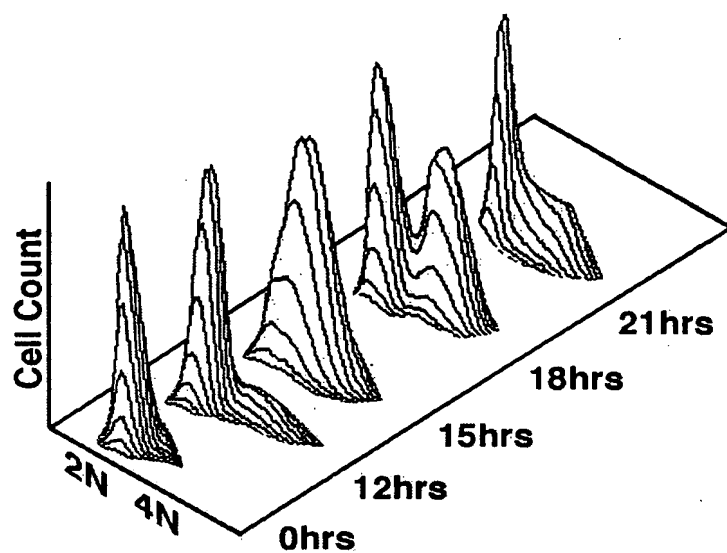


FIG. 14B



Consensus

G A T T T A A C A T A A

(SEQ ID NO:13)

8.05

G A T T T A A C A T A A

8.04

G A T T T A A C A T A A

8.03

G A T T T A A C A T A A

8.02

G A T T T A A C A T A A

8.01

G A T T T A A C A T A A

6.05

G G T G T A A C G T G G

(SEQ ID NO:36)

6.04

G T G T T A C C A C A T

(SEQ ID NO:37)

6.03

C C A T A A A T T T A G

(SEQ ID NO:38)

6.02

G A G A T A A A G T C T

(SEQ ID NO:39)

6.01

G T G T T A T T G A A A

(SEQ ID NO:40)

3.05

A C C C A C G T C T A T

(SEQ ID NO:41)

3.04

G G T T A G G A T A G G

(SEQ ID NO:42)

3.03

G T T G A G T A G T A T

(SEQ ID NO:43)

3.02

C T G T T A A T T T C C

(SEQ ID NO:44)

3.01

G G T G T T A T T G A T

(SEQ ID NO:45)

FIG 15